

**Dr. Anita M. Collins, Recent Publications:**

Collins, A. M. and Donoghue, A. M. Viability assessment of honey bee, *Apis mellifera*, sperm using dual fluorescent staining. Theriogenology. 51:1513-1523. 1999.

Collins, A. M. Relationship between semen quality and performance of instrumentally inseminated honey bee queens. Apidologie. 31:421-429. 2000.

Collins, A. M. Survival of honey bee (Hymenoptera: Apidae) spermatozoa stored at above-freezing temperatures. J. Econ. Entomol. 93:568-571. 2000.

Collins, A. M., Sheppard, W. S., and Shimanuki, H. A scientific note on the identification of honey bee semen using a mitochondrial DNA marker. Apidologie. 31:595-596. 2000.

Collins, A. M., Pettis, J. S. The effect of varroa infestation on semen quality. Amer Bee J. 141(8):590-593. 2001.

Weirich, G. F., Collins, A. M., Williams, V. P. Antioxidant enzymes in the honey bee, *Apis mellifera*. Apidologie. 33(1):3-14. 2002.

de Guzman, L. I., Rinderer, T. E., Collins, A., and Lancaster, V. Attractiveness of Africanized honey bee brood from southern Texas to *Varroa destructor* infestation. Amer Bee J. 142(2):130-132. 2002.

Collins, A. M., Gardner, L. M. Partial cytochrome b sequences for six Hymenoptera of the eastern United States. J. Heredity 92(6):519-521. 2001.

Collins, A. M. Collection of honey bee eggs for cryopreservation. J Apic Res 40(3-4):89-95. 2002.

Collins, A. M. A scientific note on the effect of centrifugation on pooled honeybee semen. Apidologie. 34:469-470. 2003.

Collins, A. M. Variation in time of egg hatch by the honey bee, *Apis mellifera* (Hymenoptera: Apidae). Annals Entomol. Soc. Amer. 97(1):140-146. 2004.

Collins, A. M., Williams, V., Evans, J. D., Sperm storage and antioxidative enzyme expression in the honey bee, *Apis mellifera*. Insect Molecular Biology. Accepted 11-6-03.

Collins, A. M. Effective viability threshold for preserved honey bee semen. Proceedings of the 30<sup>th</sup> Annual Conference IETS. Reproduction, Fertility and Development. 16:166. 2004.

Collins, A. M., Mazur, P. Chill sensitivity of honey bee, *Apis mellifera*, embryos. Cryobiology.

Pettis, J. S., Collins,A. M., Wilbanks, R., Feldlaufer, M. F. Effects of coumaphos in beeswax on queen rearing in the honey bee, *Apis mellifera* L. Apidologie. Accepted, 3-04

